Title (en)

Gas sensor for measuring humidity and the concentration of carbon dioxide

Title (de)

Gassensor zur Messung von Feuchtigkeit und Kohlendioxid-Konzentration

Title (fr)

Capteur de gaz pour mesurer l'humidité et la concentration de dioxide de carbone

Publication

EP 2397838 B1 20180117 (DE)

Application

EP 10006204 A 20100615

Priority

EP 10006204 A 20100615

Abstract (en)

[origin: EP2397838A1] The TDLS gas sensor (1) has an absorption pick-up unit (3) that is arranged in an inner side of interior chamber (18). The to-be-measured gas is circulated in the interior chamber of incubator. A reflector is provided to guide the laser beam emitted by a laser diode to a detector. A window (9) is provided to separate a measuring pick-up unit (2) and the absorption pick-up unit. An optronic component in the measuring pick-up unit is thermally uncoupled from the absorption pick-up unit. An independent claim is included for process for measuring moisture and carbon dioxide in interior chamber of incubator/climate chamber.

IPC 8 full level

G01N 21/39 (2006.01); **G01N 33/00** (2006.01); G01N 21/03 (2006.01); G01N 21/15 (2006.01); G01N 21/31 (2006.01); G01N 21/3504 (2014.01)

CPC (source: EP US)

G01N 21/39 (2013.01 - EP US); **G01N 21/8507** (2013.01 - EP); **G01N 33/004** (2013.01 - EP US); **G01N 33/006** (2013.01 - EP US); G01N 21/0332 (2013.01 - EP US); G01N 2021/158 (2013.01 - EP US); G01N 2021/3129 (2013.01 - EP US); G01N 2021/3144 (2013.01 - EP US); G01N 2021/354 (2013.01 - EP US); G01N 2021/399 (2013.01 - EP US); G01N 2021/8521 (2013.01 - EP); G01N 2201/024 (2013.01 - EP US); Y02A 50/20 (2017.12 - EP US)

Citation (examination)

US 2009028209 A1 20090129 - FEITISCH ALFRED [US], et al

Cited by

CN102621063A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2397838 A1 20111221; **EP 2397838 B1 20180117**; US 2011304844 A1 20111215; US 8330107 B2 20121211

DOCDB simple family (application)

EP 10006204 A 20100615; US 86194210 A 20100824